

Dear AFRL,

Recently, many of you have asked about access to Knovel. What is Knovel?

Knovel is a database of the full text of some of the leading engineering reference handbooks, databases, and conference proceedings, including Perry's Chemical Engineers Handbook, Lange's Handbook of Chemistry, the Civil Engineer's Handbook, Patty's Toxicology and Sax's Dangerous Properties of Industrial Materials.

Knovel provides tabular and graphical data, including facts, figures, formulas and definitions. Some of the databases include interactive tables that can be used to calculate values, for example, Yaw's Handbook of Thermodynamic and Physical Properties of Chemical Compounds. When you select this item you can go to the Table of Contents and then select the button for "Tables with Equation Plotter" – choose a Table, e.g. Heat Capacities of Gases - Elements and Inorganic Compounds and an interactive table opens up. Select your compound and go for it!

Some Subject areas and a few titles (there are 16 separate areas and almost 2,000 volumes):

- 1) Aerospace & Radar Technology
 - a. Analysis of Turbulent Flows
 - b. Radar Handbook
 - c. Titanium
- 2) Ceramics & Ceramic Engineering
 - a. Handbook of Ceramic Composites
 - b. Nanostructured Materials - Processing, Properties, and Applications
- 3) Electronics & Semiconductors
 - a. Properties of Lattice-Matched and Strained Indium Gallium Arsenide
 - b. Fundamentals of Semiconductors - Physics and Materials Properties
- 4) Industrial Engineering & Operations Management
 - a. Handbook of Human Factors and Ergonomics (3rd Edition)
 - b. Handbook of Human Systems Integration

Some new titles include:

- 2007 ASME Boiler & Pressure Vessel Code, Section II – Materials
- Alternative Fuels – The Future of Hydrogen
- Aviation Fuel Quality Control Procedures (4th Edition)
- Essentials of Inventory Management
- Financial and Economic Analysis for Engineering and Technology Management (2nd Edition)

How do I get it from my desktop?

It is available through our DTIC subscription which means that you need to register for Private Stinet to get to it.

Registering for Private Stinet

- 1) Go to dtic.mil
- 2) Select "Registration"
- 3) Follow the directions

Once you have your Private Stinet login and password:

To get to Knovel

- 1) Go to <<https://dtic-stinet.dtic.mil/>>
- 2) Login
- 3) Select "Journals" from the left side menu

4) Select “Knovel” which is the top choice

As always, feel free to contact the Reference Desk with any questions.